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Pesticide Fact Sheets Number 205: Sulfluramid

(U.S.) Environmental Protection Agency, Washington, DC

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16. Abstract (Limit: 200 words)

This document contains up-to-date chemical information, including a summary of the Agency's regulatory position and rationale, on a specific pesticide or group of pesticides. A Fact Sheet is issued after one of the the following actions has occurred:

1. Issuance or reissuance of a registration standard,
2. Issuance of each special review document,
3. Registration of a significantly changed use pattern,
4. Registration of a new chemical, or
5. An immediate need for information to resolve controversial issues relating to a specific chemical or use pattern.

17. Document Analysis a. Descriptors

Pesticides, regulations, Chemical Information Fact Sheet, Use Patterns, science findings.

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

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EPA

Pesticide Fact Sheet

Name of Chemical: SULFLURAMID
Reason for Issuance: CONDITIONAL REGISTRATION - NEW CHEMICAL
Date Issued: MARCH 23, 1989
Fact Sheet Number: 205

1. DESCRIPTION OF THE CHEMICAL

Generic Name: N-Ethyl Perfluorooctanesulfonamide

Common Name: Sulfluramid

Trade Name: GX-071

EPA Shaughnessy Code: 128992
(OPP Chemical Codes)

Chemical Abstracts Service (CAS) Number: 4151-50-2

Year of Initial Registration: 1989

Pesticide Type: Insecticide

Chemical Family: Fluorinated Sulfonamide

Producer: Griffin Corporation of Valdosta, GA

2. USE PATTERNS AND FORMULATIONS

Target Pests: Roaches, Ants

Registered Uses: Indoor roach trap, indoor ant trap, technical manufacturing-use product.

Methods of Application: Child resistant bait station.

Formulations: Technical, bait station.

3. SCIENCE FINDINGS

Chemical Characterisitics:

Physical State: Solid Crystals

Color: White

Odor: None

Melting Point: 96 degrees C

Vapor Pressure: 4.3×10^{-7} mm Hg at 25 degrees C
9.99×10^{-7} mm HG at 34 degrees C

Density: 0.1485 g/ml at 25 degrees C

Storage Stability: Stable for a minimum for 1 year when stored in a polyethylene bag under ambient conditions.

Octanol/Water Partition Coefficient: $P_{ow} = 3.10$

Flammability: NR

Solubility: The Technical Grade of the Active Ingredient does not dissolve or disperse in water.

Toxicology Characteristics:

Technical Formulation:

GX-071 Technical
EPA File Symbol 1812-327

Acute Oral Toxicity-Rat : $LD_{50} = 500$ mg/kg
Toxicity Category IV

Single Dose Dermal Toxicity-Rabbits : $LD_{50} > 2000$ mg/kg
Toxicity Category III

Primary Eye Irritation-Rabbits
Not considered an eye irritant.

Primary Dermal Irritation-Rabbits
Mild skin irritant. Score of 0.13.

Delayed Contact Sensitivity - Guinea Pigs
Data gap.

Salmonella/Mammalian Activation Gene Mutation Assay
Negative up to the limits of solubility (624 ug/plate and above) and dosing (tested up to 10,000 ug/plate)

Sister Chromatid Exchange in Chinese Hamster Ovary Cells
Negative for inducing sister chromatid exchange in vitro.

Rat Primary Hepatocyte Unscheduled DNA Synthesis Assay
Data gap.

End-Use Formulations

Raid Roach Controller II
EPA Registration Number 1812-329
Acute Oral Toxicity Study - Rat
No deaths occured following oral exposure to 5 grams/kg.

Raid Ant Controller II
EPA Registration Number 1812-330
Acute Oral Toxicity Study - Rat
No deaths occured following oral exposure to 5 grams/kg.

Ecological Characteristics:

Avian Dietary LC_{50}
Mallard Duck --> LC_{50} = 165 ppm
Bobwhite Quail --> LC_{50} = 460 ppm

Avian Oral LD_{50}
Bobwhite Quail --> LC_{50} = 473 mg/kg

Freshwater Fish LC_{50}
Rainbow Trout --> Normal LC_{50} > 10 ppm
Measured LC_{50} > 2 ppm

Acute LC_{50} Freshwater Invertebrate
Daphnia pulex --> Normal LC_{50} > 10 ppm
Measured LC_{50} > 0.21 ppm

4. Summary of Regulatory Position and Rationale

- The Agency has determined that it should allow the conditional registration of sulfluramid for indoor nonfood use in bait stations to control ants and roaches. Adequate data are available to assess the acute toxicological effects of sulfluramid to humans.

- Data Gaps: Primary Hepatocyte Unscheduled DNA Synthesis
Dermal Sensitization

- This registration is conditionally approved with an expiration date of September 15, 1990.

7. CONTACT PERSON AT EPA

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DISCLAIMER: The information in this Pesticide Fact Sheet is a summary only and is not to be used to satisfy data requirements for pesticide registration and reregistration. Contact the Product Manager listed above for further information.